

JUL 08 2008

Application No. 10/537,332
Reply to Office Action of April 8, 2008

Docket No.: 209546-98124

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A headliner assembly comprising:

a layer of core material including a first side and a second side;

a first binding agent including a first side and a second side, wherein the second side of the binding agent layer is arranged adjacent to the first side of said core material;

a first layer of chopped fiberglass including a first side and a second side, wherein the second side of the first layer of chopped fiberglass is arranged adjacent to the first side of said binding agent layer;

a scrim including a first side and a second side, wherein the second side of the scrim is arranged adjacent to the first side of said first layer of chopped fiberglass;

a catalyst layer including a first side and a second side, wherein the second side of the catalyst layer is arranged adjacent to the first side of said scrim; and

a cover stock including a first side and a second side, wherein the second side of the cover stock is arranged adjacent to the first side of said catalyst layer, wherein said catalyst and said binding agent are mixed together and impregnate said core material when pressure is applied to the headliner assembly, thereby resulting in a rigid headliner assembly.

2. (Currently Amended) A headliner assembly as recited in claim 1, further including

a second binding agent layer including a first side and a second side, wherein the first side of the second binding agent layer is arranged adjacent to the second side of said core material;

a second layer of chopped fiberglass including a first side and a second side, wherein the first side of the second layer of chopped fiberglass is arranged adjacent to the second side of said second binding agent layer core material, and

a layer of film including a first side and a second side, wherein the first side of the layer of film is arranged adjacent to the second side of said second layer of chopped fiberglass.

Application No. 10/537,332
Reply to Office Action of April 8, 2008

Docket No.: 209546-98124

3. (Withdrawn) A method of forming a headliner assembly, comprising the steps of:
- applying a binding agent to one side of a core material;
 - applying a first layer of chopped fiberglass to said binding agent;
 - applying a scrim to said first layer of chopped fiberglass;
 - applying a catalyst to said scrim; and applying a cover stock to said catalyst,
- whereby said catalyst and said binding agent are mixed together and impregnate said core material when pressure is applied to the headliner assembly, thereby resulting in a rigid headliner assembly.
4. (Withdrawn) A method as recited in claim 3 further including the steps of:
- applying said binding agent to the other side of said core material;
 - applying a second layer of chopped fiberglass to said binding agent; and
 - applying a layer of film to said second layer of chopped fiberglass.
5. (Withdrawn) A method as recited in claim 4 further including the step of
- applying a fabric covering to said layer of film.
6. (Withdrawn) A method of forming a headliner assembly, comprising the steps of:
- applying a binding agent to one side of a core material;
 - applying a first layer of chopped fiberglass to said binding agent;
 - applying a scrim to said first layer of chopped fiberglass;
 - applying a catalyst to said scrim; applying a cover stock to said catalyst; and
 - controlling an amount of said binding agent and said catalyst that impregnates said core material.
7. (Withdrawn) A method as recited in claim 6, whereby the amount of said binding agent and said catalyst absorbed by said core material is controlled by adjusting a relative position between a set of rollers.
8. (Withdrawn) A method as recited in claim 6, whereby the amount of said binding agent and said catalyst absorbed by said core material is controlled by adjusting a distance between a set of rollers and said core material.

Application No. 10/537,332
Reply to Office Action of April 8, 2008

Docket No.: 209546-98124

9. (Withdrawn) A method as recited in claim 6, whereby the amount of said binding agent and said catalyst absorbed by said core material is controlled by applying pressure to said headliner assembly.

10. (Currently Amended) The headliner assembly as recited in claim 1 further comprising

[[a]] means for forming the headliner assembly including

the second side of the first binding agent layer applied adjacent to the first

[[one]] side of the [[a]] core material,

the second side of the first layer of chopped fiberglass applied adjacent to the first side of said first binding agent layer,

the second side of the scrim applied adjacent to the first side of said first layer of chopped fiberglass,

the second side of the catalyst layer applied adjacent to the first side of said scrim, and

the second side of the cover stock applied adjacent to the first side of said catalyst layer, whereby said catalyst layer and said binding agent layer are mixed together and impregnate said core material when pressure is applied to the headliner assembly, thereby resulting in a rigid headliner assembly.

11. (Currently Amended) The headliner assembly as recited in claim 10 further comprising

a second binding agent layer including a first side and a second side,

a second layer of chopped fiberglass including a first side and a second side; and

a layer of film including a first side and a second side, wherein the means for forming the headliner further includes

the first side of said second binding agent layer applied to the second
~~other~~ side of said core material,

the first side of said second layer of chopped fiberglass applied to the
second side of said second binding agent layer, and

Application No. 10/537,332
Reply to Office Action of April 8, 2008

Docket No.: 209546-98124

the first side of said layer of film applied to the second side of said second layer of chopped fiberglass.

12. (Currently Amended) The headliner assembly as recited in claim 11 further comprising

a fabric covering including a first side and a second side, wherein the means for forming the headliner further includes

the first side of said fabric covering applied to the second side of said layer of film.

13. (New) The headliner assembly as recited in claim 1, wherein said catalyst and said binding agent are mixed together and impregnate said core material when pressure is applied to the headliner assembly, thereby resulting in a rigid headliner assembly.

14. (New) The headliner assembly as recited in claim 13, wherein said catalyst includes water, and polyol.

15. (New) The headliner assembly as recited in claim 14, wherein said catalyst includes approximately 95% water and 5% polyol.

16. (New) The headliner assembly as recited in claim 14, wherein the polyol includes means for reducing an amount of time for the binding agent to bond with the first layer of chopped fiberglass and the layer of core material by facilitating a reaction between the water of the catalyst and the binding agent.

17. (New) The headliner assembly as recited in claim 2 further comprising a fabric covering including a first side and a second side, wherein the first side of the fabric covering is arranged adjacent to the second side of said layer of film.